

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/575, 702
Source: IFWP
Date Processed by STIC: 04/25/2006

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/575,702

CRF Edit Date: 04/25/2006
Edited by: DA

___ **Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line**

___ **Corrected the SEQ ID NO. Sequence numbers edited were:**

___ **Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:**

/ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ **Inserted mandatory headings/numeric identifiers, specifically:**

___ **Moved responses to same line as heading/numeric identifier, specifically:**

___ **Other:**



IFWP

RAW SEQUENCE LISTING

DATE: 04/25/2006

PATENT APPLICATION: US/10/575,702

TIME: 14:50:57

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\04252006\J575702.raw

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3 <110> APPLICANT: Kalum, Lisbeth
4     Lange, Niels Erik Krebs
6 <120> TITLE OF INVENTION: High Temperature Enzymatic Vegetable Processing
8 <130> FILE REFERENCE: 10419.204-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/575,702
C--> 10 <141> CURRENT FILING DATE: 2006-04-13
10 <160> NUMBER OF SEQ ID NOS: 2
12 <170> SOFTWARE: PatentIn version 3.3
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 341
16 <212> TYPE: PRT
17 <213> ORGANISM: Bacillus licheniformis
19 <400> SEQUENCE: 1
21 Met Lys Lys Leu Ile Ser Ile Ile Phe Ile Phe Val Leu Gly Val Val
22 1             5             10             15
25 Gly Ser Leu Thr Ala Ala Val Ser Ala Glu Ala Ala Ser Ala Leu Asn
26             20             25             30
29 Ser Gly Lys Val Asn Pro Leu Ala Asp Phe Ser Leu Lys Gly Phe Ala
30             35             40             45
33 Ala Leu Asn Gly Gly Thr Thr Gly Gly Glu Gly Gly Gln Thr Val Thr
34             50             55             60
37 Val Thr Thr Gly Asp Gln Leu Ile Ala Ala Leu Lys Asn Lys Asn Ala
38 65             70             75             80
41 Asn Thr Pro Leu Lys Ile Tyr Val Asn Gly Thr Ile Thr Thr Ser Asn
42             85             90             95
45 Thr Ser Ala Ser Lys Ile Asp Val Lys Asp Val Ser Asn Val Ser Ile
46             100            105            110
49 Val Gly Ser Gly Thr Lys Gly Glu Leu Lys Gly Ile Gly Ile Lys Ile
50             115            120            125
53 Trp Arg Ala Asn Asn Ile Ile Ile Arg Asn Leu Lys Ile His Glu Val
54             130            135            140
57 Ala Ser Gly Asp Lys Asp Ala Ile Gly Ile Glu Gly Pro Ser Lys Asn
58 145            150            155            160
61 Ile Trp Val Asp His Asn Glu Leu Tyr His Ser Leu Asn Val Asp Lys
62             165            170            175
65 Asp Tyr Tyr Asp Gly Leu Phe Asp Val Lys Arg Asp Ala Glu Tyr Ile
66             180            185            190
69 Thr Phe Ser Trp Asn Tyr Val His Asp Gly Trp Lys Ser Met Leu Met
70             195            200            205
73 Gly Ser Ser Asp Ser Asp Asn Tyr Asn Arg Thr Ile Thr Phe His His
74             210            215            220
77 Asn Trp Phe Glu Asn Leu Asn Ser Arg Val Pro Ser Phe Arg Phe Gly
78 225            230            235            240

```

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DATE: 04/25/2006

PATENT APPLICATION: US/10/575,702

TIME: 14:50:57

Input Set : A:\pto.da.txt

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81 Glu Gly His Ile Tyr Asn Asn Tyr Phe Asn Lys Ile Ile Asp Ser Gly
82                245                250                255
85 Ile Asn Ser Arg Met Gly Ala Arg Ile Arg Ile Glu Asn Asn Leu Phe
86                260                265                270
89 Glu Asn Ala Lys Asp Pro Ile Val Ser Trp Tyr Ser Ser Ser Pro Gly
90                275                280                285
93 Tyr Trp His Val Ser Asn Asn Lys Phe Val Asn Ser Arg Gly Ser Met
94                290                295                300
97 Pro Thr Thr Ser Thr Thr Thr Tyr Asn Pro Pro Tyr Ser Tyr Ser Leu
98 305                310                315                320
101 Asp Asn Val Asp Asn Val Lys Ser Ile Val Lys Gln Asn Ala Gly Val
102                325                330                335
105 Gly Lys Ile Asn Pro
106                340
109 <210> SEQ ID NO: 2
110 <211> LENGTH: 399
111 <212> TYPE: PRT
112 <213> ORGANISM: Bacillus subtilis
114 <400> SEQUENCE: 2
116 Ala Asp Leu Gly His Gln Thr Leu Glu Ser Asn Asp Gly Trp Gly Ala
117 1                5                10                15
120 Tyr Ser Thr Gly Thr Thr Gly Gly Ser Lys Ala Ser Ser Ser His Val
121                20                25                30
124 Tyr Thr Val Ser Asn Arg Asn Gln Leu Val Ser Ala Leu Gly Lys Asp
125                35                40                45
128 Thr Asn Thr Thr Pro Lys Ile Ile Tyr Ile Lys Gly Thr Ile Asp Met
129                50                55                60
132 Asn Val Asp Asp Asn Leu Lys Pro Leu Gly Leu Asn Asp Tyr Lys Asp
133 65                70                75                80
136 Pro Glu Tyr Asp Leu Asp Lys Tyr Leu Lys Ala Tyr Asp Pro Ser Thr
137                85                90                95
140 Trp Gly Lys Lys Glu Pro Ser Gly Thr Leu Glu Glu Ala Arg Ala Arg
141                100                105                110
144 Ser Gln Lys Asn Gln Lys Ala Arg Val Met Val Asp Ile Pro Ala Asn
145                115                120                125
148 Thr Thr Ile Val Gly Ser Gly Thr Asn Ala Lys Ile Val Gly Gly Asn
149                130                135                140
152 Phe Gln Ile Lys Ser Asp Asn Val Ile Ile Arg Asn Ile Glu Phe Gln
153 145                150                155                160
156 Asp Ala Tyr Asp Tyr Phe Pro Gln Trp Asp Pro Thr Asp Gly Ser Ser
157                165                170                175
160 Gly Asn Trp Asn Ser Gln Tyr Asp Asn Ile Thr Ile Asn Gly Gly Thr
161                180                185                190
164 His Ile Trp Ile Asp His Cys Thr Phe Asn Asp Gly Ser Arg Pro Asp
165                195                200                205
168 Ser Thr Ser Pro Lys Tyr Phe Gly Arg Lys Tyr Gln His His Asp Gly
169                210                215                220
172 Gln Thr Asp Ala Ser Asn Gly Ala Asn Tyr Ile Thr Met Ser Tyr Asn
173 225                230                235                240

```

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DATE: 04/25/2006

TIME: 14:50:57

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\04252006\J575702.raw

```

176 Tyr Tyr His Asp His Asp Lys Ser Ser Ile Phe Gly Ser Ser Asp Ser
177                245                250                255
180 Lys Thr Ser Asp Asp Gly Lys Leu Lys Ile Thr Leu His His Asn Arg
181                260                265                270
184 Tyr Lys Asn Ile Val Gln Arg Ala Pro Arg Val Arg Phe Gly Gln Val
185                275                280                285
188 His Val Tyr Asn Asn Tyr Tyr Glu Gly Ser Thr Ser Ser Ser Asp Tyr
189                290                295                300
192 Ala Phe Ser Tyr Ala Trp Gly Ile Gly Lys Ser Ser Lys Ile Tyr Ala
193 305                310                315                320
196 Gln Asn Asn Val Ile Asp Val Pro Gly Leu Ser Ala Ala Lys Thr Ile
197                325                330                335
200 Ser Val Phe Ser Gly Gly Thr Ala Leu Tyr Asp Ser Gly Thr Leu Leu
201                340                345                350
204 Asn Gly Thr Gln Ile Asn Ala Ser Ala Ala Asn Gly Leu Ser Ser Ser
205                355                360                365
208 Val Gly Trp Thr Pro Ser Leu His Gly Thr Ile Asp Ala Ser Ala His
209                370                375                380
212 Val Lys Ser Asn Val Ile Ser Gln Ala Gly Ala Gly Lys Leu Asn
213 385                390                395

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,702

DATE: 04/25/2006

TIME: 14:50:58

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\04252006\J575702.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWP

RAW SEQUENCE LISTING

DATE: 04/24/2006

PATENT APPLICATION: US/10/575,702

TIME: 16:34:05

Input Set : A:\01-SQ Listing-13 Apr 2006.txt

Output Set: N:\CRF4\04242006\J575702.raw

3 <110> APPLICANT: Kalum, Lisbeth
 4 Lange, Niels Erik Krebs
 6 <120> TITLE OF INVENTION: High Temperature Enzymatic Vegetable Processing
 8 <130> FILE REFERENCE: 10419.204-US
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/575,702
 C--> 10 <141> CURRENT FILING DATE: 2006-04-13
 10 <160> NUMBER OF SEQ ID NOS: 2
 12 <170> SOFTWARE: PatentIn version 3.3

ERRORED SEQUENCES

Does Not Comply
 Corrected Diskette Needed

CP8-2)

109 <210> SEQ ID NO: 2
 110 <211> LENGTH: 399
 111 <212> TYPE: PRT
 112 <213> ORGANISM: Bacillus subtilis
 114 <400> SEQUENCE: 2
 116 Ala Asp Leu Gly His Gln Thr Leu Glu Ser Asn Asp Gly Trp Gly Ala
 117 1 5 10 15
 120 Tyr Ser Thr Gly Thr Thr Gly Gly Ser Lys Ala Ser Ser Ser His Val
 121 20 25 30
 124 Tyr Thr Val Ser Asn Arg Asn Gln Leu Val Ser Ala Leu Gly Lys Asp
 125 35 40 45
 128 Thr Asn Thr Thr Pro Lys Ile Ile Tyr Ile Lys Gly Thr Ile Asp Met
 129 50 55 60
 132 Asn Val Asp Asp Asn Leu Lys Pro Leu Gly Leu Asn Asp Tyr Lys Asp
 133 65 70 75 80
 136 Pro Glu Tyr Asp Leu Asp Lys Tyr Leu Lys Ala Tyr Asp Pro Ser Thr
 137 85 90 95
 140 Trp Gly Lys Lys Glu Pro Ser Gly Thr Leu Glu Glu Ala Arg Ala Arg
 141 100 105 110
 144 Ser Gln Lys Asn Gln Lys Ala Arg Val Met Val Asp Ile Pro Ala Asn
 145 115 120 125
 148 Thr Thr Ile Val Gly Ser Gly Thr Asn Ala Lys Ile Val Gly Gly Asn
 149 130 135 140
 152 Phe Gln Ile Lys Ser Asp Asn Val Ile Ile Arg Asn Ile Glu Phe Gln
 153 145 150 155 160
 156 Asp Ala Tyr Asp Tyr Phe Pro Gln Trp Asp Pro Thr Asp Gly Ser Ser
 157 165 170 175
 160 Gly Asn Trp Asn Ser Gln Tyr Asp Asn Ile Thr Ile Asn Gly Gly Thr
 161 180 185 190
 164 His Ile Trp Ile Asp His Cys Thr Phe Asn Asp Gly Ser Arg Pro Asp
 165 195 200 205

RAW SEQUENCE LISTING

DATE: 04/24/2006

PATENT APPLICATION: US/10/575,702

TIME: 16:34:06

Input Set : A:\01-SQ Listing-13 Apr 2006.txt

Output Set: N:\CRF4\04242006\J575702.raw

168 Ser Thr Ser Pro Lys Tyr Phe Gly Arg Lys Tyr Gln His His Asp Gly
169 210 215 220
172 Gln Thr Asp Ala Ser Asn Gly Ala Asn Tyr Ile Thr Met Ser Tyr Asn
173 225 230 235 240
176 Tyr Tyr His Asp His Asp Lys Ser Ser Ile Phe Gly Ser Ser Asp Ser
177 245 250 255
180 Lys Thr Ser Asp Asp Gly Lys Leu Lys Ile Thr Leu His His Asn Arg
181 260 265 270
184 Tyr Lys Asn Ile Val Gln Arg Ala Pro Arg Val Arg Phe Gly Gln Val
185 275 280 285
188 His Val Tyr Asn Asn Tyr Tyr Glu Gly Ser Thr Ser Ser Ser Asp Tyr
189 290 295 300
192 Ala Phe Ser Tyr Ala Trp Gly Ile Gly Lys Ser Ser Lys Ile Tyr Ala
193 305 310 315 320
196 Gln Asn Asn Val Ile Asp Val Pro Gly Leu Ser Ala Ala Lys Thr Ile
197 325 330 335
200 Ser Val Phe Ser Gly Gly Thr Ala Leu Tyr Asp Ser Gly Thr Leu Leu
201 340 345 350
204 Asn Gly Thr Gln Ile Asn Ala Ser Ala Ala Asn Gly Leu Ser Ser Ser
205 355 360 365
208 Val Gly Trp Thr Pro Ser Leu His Gly Thr Ile Asp Ala Ser Ala His
209 370 375 380
212 Val Lys Ser Asn Val Ile Ser Gln Ala Gly Ala Gly Lys Leu Asn
213 385 390 395

E--> 219

1


deleted

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,702

DATE: 04/24/2006

TIME: 16:34:07

Input Set : A:\01-SQ Listing-13 Apr 2006.txt

Output Set: N:\CRF4\04242006\J575702.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:219 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2